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							NF receptor associated factor; TRAF; activation; cell proliferation;	interacting protein (TRIP) cDNA.				SINIS		bone	DNA encoding novel	encoc	Human naematopoiet Human RECAP polynu	Human haematopoiet	Human genome-deriv	Probe #20075 used	Human brain expres	Human foetal liver Probe #15963 for q	Human genome-deriv	Human bone marrow	Human brain expres	Human foetal liver	Nephila clavipes s	Human polynucleoti	Human polynucleoti	Human polynucleoti	Oesophagus cancer	cancer relat	ng uni	Kaposi's sarcoma-a KSHV LUR DNA (nucl	Nucleotide sequenc

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                                          cancers by removing the controls on cell growth and proliferation. Research has shown that different regions on the BRCA1 molecule have different effects on cell growth and tumour suppression (e.g. full length truncated BRCA1 has no effect on breast cancer cell growth but will inhibit ovarian cancer cell growth). It has been suggested that different host cell factors (e.g. proteins) interact with different regions of the BRCA1 to control its function. The identification of these proteins (e.g. BRCA1MP) will facilitate the development of novel diagnostic methods and new therapeutics for identifying and treating cancers caused by changes in the expression or activity of BRCA1.
                                                                                                                                                                                                                                                                                                    The present sequence encodes a modulator protein, that binds to and modulate the activity of the BRCA1 gene product (BRCA1). The BRCA1 protein has been characterized as a tumour suppressor protein. Alterations in the amino acid sequence of BRCA1 causes breast and ovarian
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  1981
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                                                                                                                                                                                                                                                                                                                                                                                                                                      Claim 1; Fig
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Modulator proteins that bind BRCA1 tumour suppressor gene
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                                                                                                                 TTGCTTCTA-GCATAGCCTGGGCCAAGCAGGGTGGGGGAATGGAGATAGACATGGGATGT
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                                                                                                                                                                                                             GGACCAGAGTGCTTGAGGCATCTCAGGCAGCCTCAGCCCAAGCTTCTACCTGCCTTTGAC
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                                                                                                                                                                                                                                                                   This cDNA clone, designated 091-21A31 (ATCC 98141), codes for a 53 kDa BRCAI modulator protein (see AAM37881) that binds to the tumour suppressor gene product BRCAI, and which is characterised by a zinc finger domain and a leucine zipper motif. 3 cDNA clones (see AAM37881-83) were isolated from a HeLa cDNA library using a yeast two-hybrid assay with a GAL4-BRCA1(8-1293) fusion as bait. Vectors and host cells comprising the isolated nucleic acid sequences are claimed, as well as a process for producing BRCA1 modulator protein by culturing these host cells. BRCA1 modulator proteins and nucleic acids can be used to diagnose diseases involving unwanted cell growth, e.g. breast cancer, and to identify compounds that alter BRCA1 interaction with BRCA1 modulators for the treatment of such diseases.
                                                                                                                                                                                                                        Matches
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Breast cancer antigen 1 modulator protein - useful for diagnosing diseases involving unwanted cell growth, e.g. breast cancer, and producing therapeutics for treatment of such diseases
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DB; AAW37881.
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98.8%;
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Pred. No. 0;
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                                                                   GGCCCAGGTCAGAGTCCTCTTGCAGCAAAGATGTGGTAAGGACAGGCTTCGATGGGCTCG
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                                                                                                                                                                                                                                                                                                      TGAATCTGAAGCTCCGCCGGCCATCCTTCCGTGATGATATTGATCTCAATGCTACCTTTG 1063
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           TTGCTTCTAGGCATAGCCTGGGCCAAGCAGGGTGGGGGAATGGAGGATAG-CATGGGATGT
                                                     TTGCTTCTA-GCATAGCCTGGGCCAAGCAGGGTGGGGAATGGAGGATAGACATGGGATGT
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RESULT 4
AAD31619
Mus
     01-APR-1997;
07-APR-1997;
                                                                                                                                                            Mouse; tumour necrosis factor; TNF; TNF receptor TRAF interacting protein; TRIP; cell activation; cell death; therapy; cytostatic; ss.
                                                                                                                                                                                                                                              AAD31619
                               31-MAR-1998;
                                                              US6346605-B1
                                                                                                                                                                                              Mouse
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                                                                                                                                             sp.
                                                                                                                                                                                              TNF
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      97US-042293P
97US-042747P
                              98US-0052089
                                                                            /product= "Mouse TRIP"
/trans1_except= (pos:921..923, aa:s
/note= "There is apparent deletion
which alters the reading frame"
                                                                                                                     Location/Qualifiers 112..1524
                                                                                                              /*tag=
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Matches 1504;
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Note: This sequence SED ID NO:8 is stated to be similar to the sequence shown in the sequence listing. However the sequence shown in sequence listing lacks few bases at the end of each line.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Sequence 1975
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                  TGGAGCAGATTGAGCTTCTACTCCAGAGCCAGCTCCCTGAGGTGGAGGAGATGATCCGAG
                                                                     GCAAGGCCGAGATGCTGTGCTCCACACTGAAAAAGCAGATGAAGTACTTAGAGCAGCAGC
                                                                                                     CTCTACGGGACACCCTGGAAGAACGCAATGCTACCGTGGAGTCCCTACAGAACGCCTTAA
                                                                                                               CTCTGCGGGATACGCTGGAAGAACGCAATGCTACTGTGGTATCTCTGCAGCAGGCCTTGG
                                                                                                                                                        TCAGAGGCCCAGCTTTCCCAGAAAGACAAGGAGAAACGAGACAGCCAGGTCATCATCGACA
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                                                              ACAAGGCAGAGATGCTGTTCCACCCTGAAAAAACAGATGAAGTTCCTGGAGCAGCGGC
                                                                                                                                               TCAAAGCTCAGCTTTCCCAGAAAGACAGGGAGAAACGGGACAGCCAGGCCATTATCGACA
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RESULT 5
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                                                                                                       Claim 1;
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15-DEC-2000; 2000IL-0140354
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                                                                                                                                                                                                                                                                                                                                                                     Freilich S,
   ABL39818 represent novel human e proteins given in ABB06037 to
                                                                                                                                                                     and twenty eight novel nucleic acid sequences, or diagnosing e.g. cancer, asthma and Alzheimer's
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GTTGAGCTGGGCTGAACTGTGGNGCCCATACTATGCCTCACCTATACCCCCAGCCTGCCA 1006
                                                                                                                                                            CAGAAACAGCCCAAAAGGCCCCAGGTCAGAGTCCTCTTGCAGCAAAGATGTGGTAAGGACA 1347
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         TTGCAGACAGTCTACTCTGAATTGGATCAGGCCAAGTTAGAACTGAAGTCAGCCCAGAAG
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 AAGCTCTTCTTTGATCTTGCCCCAGGAGGAGGAGGATGTCTTGGATGCAGAATTCTTAAAG
                                                                                                                                                                                                                                                                                                                          ATTATGCAAAGGCCCCAGGAAGGAGTCCCCAGCTCTCACTGGGTGGCCAGAGCTGTGCAGGA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     44.5%;
80.9%;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  0,
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Pred. No.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Mismatches
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       e 892.8; L. No. 8.9e-232;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  405 T;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        24;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  9 other;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Length 1781;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  243;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     586
                                                                              946
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                                                                                                                      1389
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         646
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FFT	X O X	XXXX	XX	X C X	A X E	RESULT ABA9568	B 2	Q B	Qy	Db Qy	ДУ	Db Qy	Оу	Qу	DP 64	Db Qg	₽ ₽	Qy	Db	Qy	рь	Qy	DЬ	Qy
Key Location/Qualifiers replace(234,A) /*tag= a	Homo sapiens.	numan; procent kinase; enzyme; gene; brain; iung; hippocampus; calmodulin-binding kinase; gene therapy; chromosome 3; single nucleotide polymorphism; SNP; ds.	se gene.	03-APR-2002 (first entry)	ABA95683;	6 6 7 8 8	TAG-CATGGGATGTATGGAGAGGATGGAAGATTTTCATGTAAAATTAAAAA 1781	AGGA 1726	887 TACCTGCCTTTGACTTGCTTCTA-GCATAGCCTGGGCCAAGCAGGGTGGGGGAATGGAGGA 1945	1827 TIGACIGICICIGIGGACCAGAGIGCTIGAGGCATCICAGGCAGCCTCAGCCCCAAGCITC 1886	1767 TTTATAGCCATGATCAGATGTGGTCAGACTCTTTCTGGGCCTGGAGACCACGGTCACTTG 1826	1708 GCTGACATGACCAGCCCACTGATCCTGTCAGCAGGTCCTGCT-CTGTTGCCAGGCTCTTG 1766	1648 AGTGTGACACCCAGAGACTGCTCTTCCTGCCCTCACCCTGCCCACTCCTACGACTGGGA 1707 FT	1588 GACAGAGCCCTACTTTCGGGACCAGCCTGAGGTGTAAGGGCAGACAAACAGGTGAGGGTG 1647	1530 AATGGCCAGACACATGCCTGCAACTTGTAGGTCAAGGACTGTCCAGGCAGG	TICITCICITECAGGCCAAGCIGGACACCITECTGTGGTCGTGAACAGTGAGTCTGACC TITITITITITITITITITITITITITITITITITIT	CCCATTGCCTGTTAAGCCCAAGACATAAGGTTAAGCAGAGGGTGAAGACAGAC	1469	TITCTCCATGCCTCTTAACNGCTCCTCCAAACTAAAACTGACACAGTCATGATCCG 1186	1409	1067 CCCGGCTCTGAGCCTTTCTTGCCCTGNATNGNAGTCCTTTCTCGCCCTGCATGGCAGTCC 1126	1390 1389	1007 GTGCCAACAGCCTCAGGTGTGNAGTGCTGGGGCCTCATTCTGTGTNTCAGCGCCCGCCCACC 1066 FT	1390 1389 FT
exon	7	exon	intron	exon	variation	intron	variation	exon	intron	exon		intron	exon		intron	exon	intron	variation		exon		CDS		variation
30923980 /*tag= x /number= 9 39814541 /*tag= y	/mumber= 9	/*tag= v /number= 8 36043691	ω κ	ധയ	/number= / replace(3295,T) /*tag= t	/standard_name= 31473312 /*tag= s	/"tag= q /number= 7 replace(3022,T) /*tag= r	/*tag= p /number= 6 30103146	ω r	/number= 5 28442919 /*tag= 0	/*tag= m /number= 5 26832843 /*tag= n		/number= 3 22852423 /*tag= k /number= 4	/*tag= i /number= 3 20722284 /*tag= i	18171996 /*tag= h /number= 2 19972071	/number= 1 16851816 /*tag= g /number= 2	, m & r	replace(1499,T) /*tag= e /standard name=	/*tag= d /number= 1	/note= "co 14731567	/product= "Human /transl_except= (14/34544 /*tag= c	/*tag= b /standard_name=	~

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Matches 194;
                                                                                                                                                                                                                                                                                                                                                                                        Best
                                                                                                                                                                                                                                                                                                                                                                                                           Query Match
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        The present sequence is a human protein kinase gene. The protein kinase coding sequence (see ABA95682) is expressed in the brain (both infant and adult brain), lung and hippocampus. The protein kinase is related to the calmodulin-binding kinase subfamily. The protein kinase and its coding sequence can be used as models for the development of human therapeutic proteins, and serve as targets for the development of human therapeutic proteins, and serve as targets for the development of human therapeutic proteins, and serve as targets for the development of human therapeutic proteins, and serve as targets for the development of human therapeutic genes that modulate kinase activity in cells and tissues that express the kinase. In addition, the protein kinase coding sequence can be used for treating a disorder associated with nucleic acid expression of the kinase gene, particularly biological and pathological processes that are mediated by the kinase in cells and tissues that express it, as antisense constructs to control kinase gene expression in cells, tissues or organisms, and in gene therapy. The protein kinase gene maps to chromosome 3.
                                                                                                                                                                                                                                                                         7302
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Claim
  7482
                                                                                                                                                                                  7362
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     New calmodulin-binding kinase peptides and nucleic acid encoding the peptides, useful as models for developing human therapeutic targets or in screening for compounds that modulate kinase \,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          30-MAY-2000;
12-DEC-2000;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    variation
                                                                                                                                                                                                                                                                                                                                                                                                                                                       Sequence
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               (APPL-)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              30-MAY-2001; 2001WO-US17327
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  variation
                                                                                                                                      117
                                                                                                                                                                                                                          57
                                                                                                                                                                                                                                                                                                                                                                                        Local
                                                                                                                                                                                                                                                                                              1 GTGCGGTGGAGCGAAATTTGAAGCAAGCGGAGGCGGGGGCG----CTCTACGAAGCCGGAC
                                                                                                                                                                           CGGCCACACCTTCCACTTGCAGTG
                     CGGCCACACCTTCCACTTGCAGTG 200
                                                                                                                                   TCTGTGCACTATCTGCTCCGACTTCTTCGATCACTCCCGCGACGTGGCCGCCATCCACTG 176
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   2002-097770/13.
DB; AAM48279.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           4; Fig
                                                                                                                                                                                                                                                                                                                                                                                        Similarity
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               APPLERA CORP.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Wei M,
                                                                                                                                                                                                                                                                                                                                                                                                                                                     7542 BP; 1612 A; 1977 C; 2156 G; 1797 T;
                                                                                                                                                                                                                                                                                                                                                            8.8%;
nilarity 95.1%;
Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          2000US-207281P.
2000US-0734030.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           3; 75pp; English.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Ketchum
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       /standard_name=
replace(7264,G)
/*tag= ac
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         replace(6242,C)
/*tag= ab
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  /number= 10 replace(4677,T)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             /standard_name= "Single nucleotide polymorphism
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        ∕standard_name≖
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        /*tag=
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replace(5583,Y)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 /*tag=
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             a
                                                                                                                                                                                                                                                                                                                                                            Pred.
0; Mis
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                                                                                                                                                                                                                                                                                                                                                                                     Score 176.4;
Pred. No. 5.3
                                                                                                                                                                                                                                                                                                                                                                Mismatches
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   "Single
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   nucleotide
                                                                                                                                                                                                                                                                                                                                                                                 .3e-37;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Beasley
                                                                                                                                                                                                                                                                                                                                                                                                        DB 24;
                                                                                                                                                                                                                                                                                                                                                                <u>ه</u>
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                                                                                                                                                                                                                                                                                                                                                                                                                                                   0 other;
                                                                                                                                                                                                                                                                                                                                                              Indels
                                                                                                                                                                                                                                                                                                                                                                                                      Length 7542;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   polymorphism
                                                                                                                                                                                                                                                                                                                                                              4;
                                                                                                                                                                                                                                                                                                                                                              Gaps
                                                                                                                                                                                                                                                                     7361
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ASSITING
X

X

X

Neuroprotective; cytostatic; dermatological; immunosuppressive; tumour; with immunosuppress
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2000US-0232397. 2000US-0232398. 2000US-0232399. 2000US-0232400. 2000US-0232401. 2000US-0233063. 2000US-0233063.

2000US-0231968

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                                                                                                                                                                                                                                              The invention relates to novel isolated polypeptides (I), and CC polynucleotides (II). (II) and the antibody to (I) are useful for CC diagnosing, preventing and treating diseases including immune system CC disorders (e.g. congenital and acquired immunodeficiencies, autoimmune CC disorders (e.g. rheumatoid arthritis), inflammatory conditions, organ CC transplant rejections and graft versus host disease, infectious diseases CC (e.g. hepatitis C), bleeding disorders, haemoglobin abnormalities and CC other blood-related disorders (sickle cell anaemia), myeloproliferative CC disorders (e.g. Gaucher's disease and cancer), neurodegenerative CC disorders (e.g. Gaucher's disease, Parkinson's disease), chromosomal CC abnormalities (Down syndrome), ischaemic injury (e.g. stroke), renal CC disorders (e.g. glomerulonephritis), cardiovascular disorders (e.g. dlomerulonephritis), cardiovascular disorders (e.g. dadison's disease), reproductive system disorders (e.g. dadison's disease), reproductive system disorders (c.g. dadison's disease) of B-cell responsiveness to pathogens, activators of CC as stimulators of B-cell responsiveness to pathogens, activators of Syndrome (AIDS), AAS26976-AAS27850 represent novel signal transduction CC syndrome (AIDS). AAS26976-AAS27850 represent novel signal transduction
                                                                                                                                                                                   Matches
                                                                                                                                                                                                Query Match
Best Local (
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                17-NOV-2000
17-NOV-2000
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06-DEC-2000
06-DEC-2000
08-DEC-2000
                                                                                                                                                                                                                                             Sequence
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Claim
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Novel polypeptides useful for diagnosing, treating, preventing and/or prognosing disorders related to the proteins, including cancers, immudisorders and neuronal disorders \,
                                                                                                                                                                                                                                                                        pathway protein coding
                            168
                                                                                         108
                                                                                                                       148
                                                          88
                                                                                                                                                    48
                                                                                                                                                                                               Local
28
              CATCCACTGCGGCCACACCTTCCACTTG
                                                                       TATCCGTGCTCTGTGCACTATCTGCTCCGACTTCTTCGATCACTCCCGCGACGTGGCCGC
                                                                                                                                    AAGCCGGACCTGTAGCAGTTTCTTTGGCTGCCTGGGCCCCTTGAGTCCAGCCATCATGCC
                                                            TATCCGTGCTCTGTGCACTATCTGCTCCGACTTCTTCGATCACTCCCGCGACGTGGCCGC
                                                                                                                       AAGCCGGACCTGTAGCAGTTTCTTTGGCTGCCTGGGCCCCTTGAGTCCAGCCATCATGCC
CATCCACTGCGGCCACACCTTCCACTTG
                                                                                                                                                                                   148;
                                                                                                                                                                                                  Similarity
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     HUMAN
                                                                                                                                                                                                                                             148
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 SEQ ID No 1379;
                                                                                                                                                                                  ilarity 100.0%;
Conservative (
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                2000US-0249264

2000US-0249297

2000US-0249299

2000US-0249299

2000US-02519300

2000US-02519301

2000US-02519391

2000US-0251988

2000US-02511856

2000US-02511856

2000US-02511856

2000US-02511856

2000US-02511856

2000US-02511856

2000US-02511858

2000US-02511858

2000US-02511858

2000US-02511869

2000US-02511869

2000US-02511869

2000US-02511989

2000US-0251989

2000US-0251990

2000US-0251990

2000US-0251997
                                                                                                                                                                                                                                             BP;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     GENOME
                                                                                                                                                                                                                                             38
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       SC,
                                                                                                                                                                                                                                             Α,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     SCI INC
                                                                                                                                                                                                                  7.48;
                                                                                                                                                                                                                                             33 C;
                                                                                                                                                                                                                                                                         sequences and
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Ruben
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 880pp;
                                                                                                                                                                                  0;
                                                                                                                                                                                Score 148; DB; Pred. No. 4e-
0; Mismatches
                                                                                                                                                                                                                                             56 G;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       SM;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              English.
                              195
                                                                                                                                                                                                                                             21 T;
                                                                                                                                                                                                                                                                           PCR primers of the
                                                                                                                                                                                                4e-30;
                                                                                                                                                                                                                  DB
                                                                                                                                                                                                                                             0 other;
                                                                                                                                                                                  0;
                                                                                                                                                                                                             Length 148;
                                                                                                                                                                                  Indels
                                                                                                                                                                                                                                                                           invention.
                                                                                                                                                                                0;
                                                                                                                                                                                Gaps
                                                                                         167
                                                                                                                       89
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06-SEP-2000
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25-SEP-2000
27-SEP-2000
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29-SEP-2000
20-CCT-2000
20-CCT

2000US-0236802. 2000US-0237037. 2000US-0237038. 2000US-0237039. 2000US-0235834. 2000US-0235836. 2000US-0236327. 2000US-0236367.

2000US-0234998 2000US-0235484

2000US-0237040 2000US-0239935 2000US-0240960 2000US-0241785 2000US-0241786 2000US-0241786 2000US-0241786 2000US-0241808 2000US-0241809 2000US-0241809 2000US-0241809 2000US-0241875 2000US-0246474 2000US-0246475

2000US-0249207 2000US-0249208 2000US-0249209 2000US-0249210 2000US-0249211 2000US-0249212 2000US-0249213 2000US-0249214 2000US-0249214 2000US-0249215 2000US-0249215 2000US-0249217

2000US-0246538 2000US-0246532 2000US-0246609 2000US-0246611 2000US-0246611 2000US-0246613

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RESULT 8
ABN41009
                                                                                                                                                     δÃ
 В
                                                                        Matches
                                                                                        Query Match
Best Local Similarity
                               1519 TGAGTCTGACCAATGGCCAGACACATGCCTGCAACTTGTAGGTCAAGGACTGTCCAGGCA 1578
                                                                                                                                                                                                                                                         the genome, which encodes one or more messenger RNA splice variants. The oligonucleotide libraries are useful for detecting mRNAs from a biological sample, in expression profiling studies, in qualitatively or quantitatively characterising the corresponding transcriptome, and in detecting RNA transcripts and splice variants of human or animal transcriptomes. The libraries may also be used as specialised mini libraries to detect transcripts of a sub-transcriptome under a particular biological or pathological state, and so allowing the detection of tissue- and pathological state, and so allowing the detection of tissue- and pathological state, and so allowing the condition; to detect developmental specific genes such as those genes only expressed in specific tissue under a specific pathological condition; to detect developmental specific genes; and to detect RNA transcripts and splice variants of a transcriptome of a patient suffering from a particular disorder. ABN27253 to ABNS9589 represent
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  New oligonucleotide libraries comprising oligonucleotides which selectively hybridize to mRNAs transcribed from a transcription unit of a genome, useful for detecting tissue-, pathology-, and
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               (sub-)transcriptome comprises messenger RNAs transcribed from multiple transcription units that populate a genome. The library comprises several oligonucleotides, each capable of hybridising selectively to a
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              07-FEB-2002
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          splice variant; transcriptome; oligonucleotide library; ss
                                                                                                                                                 Sequence 60
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               set of messenger RNAs transcribed from a given transcription unit of
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            The present invention describes oligonucleotide libraries for detecting
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 28-JUL-2000; 2000US-221607P.
02-MAY-2001; 2001US-287724P.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Homo sapiens
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Human spliced
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        15-JUL-2002
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 ABN41009 standard; DNA;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Example 1; SEQ ID 13757; 47pp; English.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              (COMP-) COMPUGEN INC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      20-JUL-2001; 2001WO-IB01903
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                ABN41009
                                                                                                                                                                                                            specification,
                                                                                                                                                                                       ftp.wipo.int/pub/published_pct_sequences.
                                                                                                                                                                                                      exemplification of the present invention.

The sequence data for this patent did not form part of the printed cification, but was obtained in electronic format directly from WIPO
TGAGTCTGACCAATGGCCAGACACGCCTGCAACTTGTAGGTCAAGGACTGTCCAGGCA 60
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            mouse; rat; splice transcript; detection; RNA transcript;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          RNAs that populate a (sub-)transcriptome, where the
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Wasserman A,
                                                                                                                                                 BP; 16 A; 16 C; 16 G; 12 T;
                                                                          Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      (first entry)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               transcript detection oligonucleotide SEQ ID NO:13757
                                                                                        3.0%;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     60
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Mintz
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   ВP
                                                                        0;
                                                                                          Score 60;
Pred. No.
                                                                        Mismatches
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                                                                                          DB 24;
2e-06;
                                                                                                                                                   0 other;
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                                                                        0;
                                                                                                        Length 60
                                                                        Indels
                                                                      0,
                                                                      Gaps
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RESULT 9
AAA30290
ID AAA3
Castleman's disease. In addition, KS is a common malignancy in HIV patients. KSHV persists in host cells in a latent form. One of the few genes expressed from the latent viral DNA is LANA. LANA associates with both human chromosomes and with the rhadino virus cis-acting element (RVCAB), thereby providing a tethering function: the KSHV DNA episome is "tied" to the host chromosomes. This allows the viral DNA to persist in the host chromosomes. This allows the viral DNA to persist in the host call. The present sequence may be used to screen and identify molecules that inhibit LANA interaction with RVCAE, thereby interfering with the latency cycle of this virus. Potential antiviral treatments for
                                                                                                                                                                                                                                                                                                       efficient persistence of rhadino virus DNA in mammalian cells. Persisten rhadino virus infection is implicated in a variety of diseases e.g. Kaposi's Sarcoma (KS), Primary Effusion Lymphoma (PBL) and multicentric Kaposi's Sarcoma (KS), Primary Effusion Lymphoma (PBL) and multicentric
                                                                                                                                                                                                                                                                                                                                                                                                                                   The present sequence is the Kaposi's sarcoma-associated herpesvirus, (KSHV) latency-associated nuclear antigen (LANA) gene. KSHV is also known as Human Herpes Virus 8 (HHV8) and belongs to the rhadino virus, or
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           misc_signal
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                                                                                                                                                                                                                                                                                                                                                                                                       gamma-2 herpes virus class. The LANA protein is necessary for the
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Disclosure; Fig 6;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Treating or preventing a disease associated with rhodino virus infection in a mammal which includes Kaposi's Sarcoma and Priming and Primi
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Kieff ED,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  (KIEF/) KIEFF E D.
(BALL/) BALLESTAS M
(KAYE/) KAYE K M.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       19-NOV-1998;
21-APR-1999;
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Kaposi's sarcoma; p
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Kaposi's sarcoma-associated herpesvirus;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Effusion Lymphoma
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                        mentioned
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99US-0298568
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     /note= "nuclear localisation signal, NLS" 190..210
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Location/Qualifiers
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            /*tag=
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        70pp; English
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Kaye KM;
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                     therefore be
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                     based
                     on LANA deregulation
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RESULT 10
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           The invention provides a composition comprising nucleic acid, histone HI protein and expression vector operationally encoding a protein suitable for tethering the nucleic acid to the histone HI protein, where the tethering protein is LANA. The composition is useful in aiding the
                                                                                                                   A composition for use in that includes a nucleic
                                                                                                                                                                                                                                                                                                                                                                             CDS
                                                                             Disclosure; Fig 9A; 60pp;
                                                                                                                                                              P-PSDB;
                                                                                                                                                                         WPI; 2001-281736/29.
                                                                                                                                                                                                                                                        01-OCT-1999;
                                                                                                                                                                                                                                                                                   29-SEP-2000; 2000WO-US26908
                                                                                                                                                                                                                                                                                                             12-APR-2001
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  retention
                                                                                                                                                                                                                              (UNMI ) UNIV MICHIGAN
                                                                                                                                                                                                                                                                                                                                                                                                                  Kaposi's sarcoma associated herpesvirus
                                                                                                                                                                                                                                                                                                                                                                                                                                                        Histone H1; tethering protein; LANA; gene therapy; multiple sclerosis, Parkinson's disease; Huntington disease; diabetes; human herpesvirus 8
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     AAF82901;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               2452 TTAGAGGAGCAGGAGCAGGAGCAGGAGCAGGAGTT 2495
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                                                                                                                                                                                                                                                                                                                                                                                                                                              KSHV;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Nucleotide sequence of KSHV tethering protein, LANA:
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                                                                                                                                                                                                                                                                                                                                                                                                                                             latency-associated nuclear antigen; LANA;
                                                                                                                                                            AAB62331.
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1..3489
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acid
                                                                             English.
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                                                                                                                   therapy comprises an expression vector sequence encoding a nucleic acid binding
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Mismatches 145;
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vector encodes
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RESULT 11
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Best Local
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    protein suitable for tethering DNA to Histone H1. Methods for screening for compounds which are agonistic or antagonistic for the tethering of viral proteins to histone H1 and DNA binding sites are useful for developing the method of viral transfer. The composition has applications to gene therapy, including the treatment of multiple sclerosis, Parkinson's disease, Huntington disease and diabetes. The present sequence represents the nucleotide sequence of the Raposi's sarcoma associated herpesvirus (human herpesvirus 8) latency-associated nuclear antigen (LANA), which acts as a tethering protein.
WPI; 2002-153769/20
                                                                                                                                                                                                                                                                                                                                    Kaposi's sarcoma-associated herpesvirus; KSHV; LANA; RVCAE; PE KSHV terminal repeat; rhadino virus cis acting element; episom primary effusion lymphoma; latency-associated nuclear antigen; gene therapy; gene transfer; gene; ds.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      2452
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                            Kieff ED,
                                                                                         19-NOV-1998;
                                                                                                                                                                                 US6322792-B1
                                                                                                                                                                                                                                                                                                         Human herpesvirus 8.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           ABA93487 standard;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              2332
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Sequence 3489 BP;
                                                           (KIEF/) KIEFF
                                                                                                                       21-APR-1999;
                                                                                                                                                      27-NOV-2001
                                                                                                                                                                                                                                                                                                                                                                                                                                                25-APR-2002
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        565
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               139;
                                                                                                                                                                                                                                                                                                                                                                                                                sarcoma-associated herpesvirus LANA protein encoding DNA
                            Ballestas
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                               (first entry)
                                                           E D.
                                                                                         98US-109422P
                                                                                                                       99US-0298568
                                                                                                                                                                                                            /product= "LANA protein"
/note= "latency-associated nuclear antigen"
                                                                                                                                                                                                                                                                          Location/Qualifiers
                                                                                                                                                                                                                                             /*tag= a
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          1053 A; 862 C; 1137 G; 437 T;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             DNA;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              2.6%;
                              Ĕ
                              Kaye
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Pred. No.
                              <u>Σ</u>
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 0
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               .0021;
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                                                                                                                                                                                                                                                                                                                                                                                     RVCAE; PEL;
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RESULT 12
AAV73805/c
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Best Local
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Matches 139;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                The present invention describes a system (A) for maintaining a plasmid as an episome in mammalian cells, comprising the rhadinoviral sequence LANA (latency-associated nuclear antigen) of 3489 base pairs (see ABA93487, S1) expressed in the cell, and the rhadinoviral sequence RVCAE (rhadinoviral cis-acting element) of 801 base pairs (see ABA93488, S2) present in the plasmid. Also describes is a method for maintaining a closed circular DNA in a cell by expressing (S1) in the cells and having (S2) as a cis-acting and maintenance sequence in the DNA. (A) is particularly used in gene therapy (or other gene transfer applications) that uses mammalian cells in which LANA is expressed. (A) improves persistence of gene therapy vectors in cells. The present sequence encodes Kaposi's sarcoma-associated herpesvirus (KSHV, also called human herpesvirus (LANA protein, which is used in the exemplification of the
                                                                                                                                      Kaposi's sarcoma; acquired immune deficiency syndrome; AIDS dihydrofolate reductase; LUR; Long unique region; vaccine; diagnosis; treatment; HHMS; capsid protein IV; tegument proglycoprotein; kaposin; cyclin D; immediate early protein; v-adh; G-protein coupled receptor; FGARAT; ds.
                                                                                                                                                                                                                                                                                                                                                                                                                             2452
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                                                                                                                                                                                                                                                                                                                                             AAV73805
                 29-NOV-1996;
                                               15-DEC-1998
                                                                                                            Kaposi's
                                                                                                                                                                                                                                            KSHV LUR DNA (nucleotides 105, 301-137, 507).
                                                                                                                                                                                                                                                                              25-FEB-1999
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         invention.
                                                                                                            sarcoma-associated herpesvirus
                                                                                                                                                                                                                                                                                                                                             standard;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       3489 BP; 1053 A; 862 C; 1137 G;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     episomal retention of plasmids py, comprises rhadinoviral LANA
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                                                                                                                                                                                                                                                                             (first entry)
                 96US-0770379
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48.9%;
                                                                                                                                                                                                                                                                                                                                             DNA;
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Pred.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           .0021
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                                                                                                                                           early protein; IEP; Ox-2; ds.
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                                                                                                                                                                                                                                                                                                                                                                                                                            2495
                                                                                                                                                                                                                                                                                                                                                                                                                                                          788
                                                                                                                                                                                                              AIDS; DHFR;
                                                                                                                                                                           protein
                                                                                                                                                                                           prophylaxis;
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Best Local S
Matches 139
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       interleukin-6; II-6; interferon regulatory factor; rheumato10 atumitus complement-binding protein; glycoprotein; capsid protein IV; infection; immediate early protein; Kaposi's sarcoma; protective vaccine; lymphoma lymphoproliferative disease; leukaemia; splenomegaly; mycosis fungoides
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        deficiency syndrome (AIDS). The DHFR protein is useful prophylaxis, diagnosis and treatment of a subject with and for detecting expression of a DNA virus associated
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Kaposi's sarcoma-associated herpes di:hydro:folate reductase and is us or diagnosis of Kaposi's sarcoma
                                                                                                                                                                                                                                                                                                                           AAV19941 standard;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Sequence 32207 BP;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Disclosure; Column 155-182; 109pp;
                                                                                                                                                                              KSHV long unique coding region
                                                                                                                                                                                                                               03-AUG-1998
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                                                                                                                                   human herpes virus
                                                                                                                                                                                                                             (first entry)
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                                                                                                                                                                                                                                                                                                                           DNA;
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Pred.
                                                                                                                                   8
                                                                                                                                                                                 and terminal repeat.
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egulatory factor; rheumatoid artl
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for treat
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     DB 20;
.0064;
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                                                                                                             arthritis;
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Kaposi's sarcoma-associated herpes virus.

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25-JUL-1996;
25-JUL-1996;
25-JUL-1996;
25-JUL-1996;
05-SEP-1996;
                                                                                            10-OCT-1996;
13-NOV-1996;
13-NOV-1996;
      New nucleic acid encoding Kaposi's sarcoma associated heproteins - useful for, e.g. detecting levels of HHV8 in, preparation of vaccines for treatment of, HIV patients
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    CDS
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25-JUL-1996;
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                                                                            (UYCO ) UNIV
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                                                                            COLUMBIA NEW YORK
                                                          Chang
                                                                                            96US-0708678.
96US-0728323.
96US-0747887.
96US-0748640.
                                                                                                                               96US-0686349.
96US-0686350.
96US-0687253.
96US-0688814.
                                                                                                                                                                           96US-0757669
                                                                                                                                                                                              97WO-US13346
                                                                                                                                                                                                                                                                                                                                                                                                                            /product= glycoprotein M complement (69412..69915)
                                                                                                                                                                                                                                                                                                                                                                                                                                                       /product= protein T1.1 complement (58976..60175)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           /product= macrophage inflammatory
complement (27137...27424)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     complement (21548..21832)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               /product= glycoprotein B complement (17261..17875)
                                                                                                                                                                                                                                                                  /product= capsid protein IV
complement (123808..127296)
                                                                                                                                                                                                                                                                                                    /product-
                                                                                                                                                                                                                                                                                                                                               /product= interferon regulatory factor 90173..90643
                                                                                                                                                                                                                                                                                                                                                                                                   /product= glycoprotein L
complement (88410..88910)
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3699..11236
                                                                                                                                                                                                                                                                                   /*tag=
                                                                                                                                                                                                                                                                                            complement (111931..112443)
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complement (93636..94127)
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28661..29741
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                                                                                                                                                                                                                                                                                                               /*tag=
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           CC the Kaposi's sarcoma-associated herpes virus (KSHV). KSHV is also known CC as human herpes virus (8 (HHVB). This sequence contains the DNAs of the CC invention which encode KSHV polypeptides selected from: (a) viral complement-binding protein; glycoproteins B, M or L; (d) viral interleukin-6 (IL-6); (c) viral interleukin-6 (IL-6); (d) capsid protein IV encoded by ORF65; and (e) immediate early protein CC encoded by ORF73. Labelled probes for the nucleic acid, proteins encoded by it, and antibodies (Ab) specific for the proteins are useful for CC detecting HHVB, specifically for diagnosis of Kaposi's sarcoma, in body fluids or tissue samples. HHVB infections can be treated with antisense cor triplex forming molecules or agents that bind specifically to the protein. Ab may be used for prophylaxis or treatment of HHVB infection, while the protein can be used in protective vaccines. Ab may also be used to differentiate between lymphomas, and HHVB may be implicated in many CC while the protein for drug screening. HHVB-derived peptides can be inhibited with methotrexate. These can also be used to determine the immune status of a patient infected with HFVB derived protein
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Query Match
Best Local S
Matches 139
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                                                                                             Human; cancer cell marker; TAXOL; cytostatic; tumour; carcinoma; squamous cell carcinoma; sarcoma; fibrosarcoma; leukaemia; lymphocyttc leukaemia; hymphoma; plasmocytoma; reticulum cell sa Hodgkin's disease; glioma; ss.
                                                                                                                                                                                                                                                                                                                       AAS60947 standard;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 viral MIP III may be used as an anti-inflammatory agent for, e.g. treating rheumatoid arthritis. This sequence is stated as containing
                                                                                                                                                                                                Human cancer agent-resistance marker #606
                                                                                                                                                                                                                                         29-JAN-2002
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Sequence 137507 BP; 32579 A;
                                                        Homo sapiens
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Example 2; Page 135-203; 230pp; English
                                                                                                                                                                                                                                                                                                                                                                                                                                                                 745
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           565
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        505 CTGAAAAAGCAGATGAAGTACTTAGAGCAGCAGCAGGATGAGACCAAACAAGCACAAGAG 564
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Local Similarity
nes 139; Conser
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        GATCAGGAGCAGGAGTTAGAGGAGCAGGAGCAGGAGCTTAGAGGAGCAGGAGCTTA 124906
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                                                                                                                                                                                                                                                                                                                                                                                                                                                               GAGGAGCAGGAGCAGGAGTTAGAGGAGCAGGAGCAGGAGTTAGAGGAGCAGGAGCAGGAG 124846
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   GAGCAGGAGCAGGAGGAGCAGGAGCAGGAGCTTAGAGGAGCAGGAGCAGGAGTTAGAG
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           AGCCAGCTCCCTGAGGTGGAGGAGATGATCCGAGACATGGGTGTGGGACAGTCAGCGGTG 684
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                                                                                                                                                                                                                                       (first entry)
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                                                                                                                                                                                                                                                                                                                         cDNA; 4246 BP
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Pred. No.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           37795 C; 35758 G;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Mismatches
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0.013;
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ABL66905
                                             RESULT 15
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Best Local
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    in the treatment of cancer cell growth in an individual. The markers can be used as targets in developing anti-cancer agents such as chemotherapeutic compounds. The markers can also be used as targets in developing treatments for cancer, particularly those cancers which display resistance to agents and exhibit expression of the markers. The anticancer agents developed by the novel method can be used to treat cancer. Probes based on the markers can be used to detect transcripts or genomic sequences corresponding to the markers, in the identification of cells or tissues which mis-express the protein. Cancers which may be targeted include carcinoma (e.g. squamous cell carcinoma), sarcoma (e.g. fibrosarcoma) leukaemia (e.g. lymphoma, plasmocytoma, reticulum cell sarcoma, Hodgkin's disease and tumours (e.g. glioma). The present sequence is one of the 1046
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  The invention relates to 1046 novel nucleic acids which are used as markers for determining the sensitivity of a cancer cell to the anticancer agent TAXOL. Cancer cells can be treated with TAXOL when they are shown to express one of the 242 sensitivity markers or the cells are shown not to express one of the 804 resistance markers. The methods can be used to determine the effectiveness of TAXOL.
                                                                                         1065
              ABL66905 standard; DNA; 7596 BP
                                                                                                                                                  1005
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Sequence
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Claim 1; Page 450-451; 527pp; English.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Novel nucleic acid, used as a using TAXOL to treat cancer of
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              novel cancer cell markers.
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                                                                                       GAAGCAGAAGA
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                                                                                                                                                                                                                                                                                                 CACTCTGCGGGATACGCTGGAAGAACGCAATGCTACTGTGGTATCTCTGCAGCAGGCCTT
                                                                                                                                                                                                                                                                                                                                                 TGTCAGAGCCCAGCTTTCCCAGAAAGACAAGGAGAAACGAGAGACAGCCAGGTCATCATCGA 416
                                                                                                                                               GCTGGACGACCTCACGGTGGACCTGGACCACCAGCGCCAGGTCGCCTCCAACTTGGAGAA 106
                                                                                                                                                                           GCAGGATGAGACCAAACAAGCACAAGAGGAGGCGGGCCGGCTCAGGAGCAAGATGAAGAC 596
                                                                                                                                                                                                           GGAGGAGAAGGCACTGGCGTATGACAAACTGGAGAAGACCAAGAACCGCCTGCAGCAGGA
                                                                                                                                                                                                                                        GGGCAAGGCCGAGATGCTGTGCTCCACACTGAAAAAGCAGATGAAGTACTTAGAGCAGCA
                                                                                                                                                                                                                                                                      AAGTCTGGAAGAAGCCAAGAAGCTTCTGAAGGACGCGGAGGCCCTGAGCCAGCGCCT
                                                                                                                                                                                                                                                                                                                              CCTGCAGTCCCAGTTGGCTGATACCAAGAAGAAAGTAGATGACGACCTGGGAACAATTGA
                                                                                                                                                                                                                                                                                                                                                                                          TCAGGAGCAGCAGGAGGAGGAGGAGGAGGACCAGGAACCTGGAGAAGCAAGTGCTGGC 824
                                                                                                                                                                                                                                                                                                                                                                                                                      TCTTGCCCCAGGAGGAGGAGTGTCTTGGATCGAGAATTCTTAAAGAATGAACTGGACAA 356
                                                                                                                                                                                                                                                                                                                                                                                                                                                    al Similarity
149; Conserv
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 4246
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                                                                                                                                                                                                                                                                                                                                                                                                                                                    Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          to treat cancer cell
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 BP;
                                                                                         1075
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               1217 A; 1019 C; 1183 G;
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ell growth
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18-SEP-2000;
20-SEP-2000;
Screening for anti-neoplastic agent involves exposing cells to chemical agent to be tested for anti-neoplastic activity, and determining a change in expression of a gene of a signature gen
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Human; cancer; colon; breast; ovary; oesophagus; kidney; thyroid; stomach; lung; prostate; pancreas; carcinoma; antitumour; cancero cytostatic; gene therapy; antineoplastic; Wilm's tumour; adenocar
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       30-MAY-2001;
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                                                                                                                                                                                                                                                                                   (AVAL-) AVALON PHARM.
                                                                                                                                                                      PE,
DR,
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                                                                                                                                                                                Augustus M, Weaver Z;
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2000US - 234009P

2000US - 234009P

2000US - 234509P

2000US - 234509P

2000US - 234592P

2000US - 235280P

2000US - 235280P

2000US - 235280P

2000US - 235280P

2000US - 235711P

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2000US - 236
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2000US-209531P.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  The present invention describes a method (M1) for screening for an anti-neoplastic agent. The method involves exposing cells to a chemical agent to be tested for anti-neoplastic activity, determining a change in capression of at least one gene (I) of a signature gene set, where (I) comprises a sequence (S) selected from 8447 sequences (given in ABL61664 to ABL70110), or is at least 95% identical to (S), where a change in capression is indicative of anti-neoplastic activity. (I) has cytostatic activity and can be used in gene therapy. M1 can be used for screening an anti-neoplastic agent, and can be used for producing a product which is the data collected with respect to the anti-neoplastic agent as a cresult of M1, and the data is sufficient to convey the chemical correspondancy of the agent. M1 can be used in the treatment of cancer such as colon, breast, stomach, lung, thyroid, coesophageal, ovarian, kidney, prostate or pancreatic cancer, infiltrating lobular cancer, squamous cell carcinoma, neuroendocrine carcinoma, papillary carcinoma and Wilm's tumour.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Query Match
Best Local Similarity
Matches 149; Conserv
                                                                                                                                                                                              4303
4423 GAAGCAGAAGA 4433
                                                                                                                                                                                                                                                                                             4243 AAGTCTGGAAGAAGCCAAGAAGAAGCTTCTGAAGGACGCGGAGGCCCTGAGCCAGCGCCT 4302
                                                                                                                                                                                                                                                                                                                                                                                            4183 CCTGCAGTCCCAGTTGGCTGATACCAAGAAGAAGTAGATGACGACCTGGGAACAATTGA 4242
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             4123 TCAGGAGCAGGAGGAGGAGGAGGAGGCCAGGAAGAACCTGGAGAAAGCAAGTGCTGGC 4182
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Sequence 7596 BP; 2283 A; 1697 C; 2021 G; 1595 T; 0 other;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Claim 1; SEQ ID 5242; 44pp; English.
                                                                                                                                                                                                                                              477
                                              597 CATGGAGCAGA 607
                                                                                                                                                                                                                                                                                                                                           417 CACTCTGCGGGATACGCTGGAAGAACGCAATGCTACTGTGGTATCTCTGCAGCAGGCCTT 476
                                                                                                                                                                                                                                                                                                                                                                                                                           357 TGTCAGAGCCCAGCTTTCCCCAGAAAGACAAGGAGAAACGAGAGACAGCCAGGTCATCGA 416
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       297 TCTTGCCCAGGAGGAGGAGTCTCTGGATCGAGAATTCTTAAAGAATGAACTGGACAA 356
                                                                                               GCTGGACGACCTCACGGTGGACCTGGACCACCAGCGCCAGGTCGCCTCCAACTTGGAGAA 4422
                                                                                                                                             GCAGGATGAGACCAAACAAGCACAAGAGGAGGCGGGCCGGCTCAGGAGCAAGATGAAGAC 596
                                                                                                                                                                                                                                            GGGCAAGGCCGAGATGCTGCTGCTCCACACTGAAAAAGCAGATGAAGTACTTAGAGCAGCA 536
                                                                                                                                                                                           GGAGGAGAAGGCACTGGCGTATGACAAACTGGAGAAGAACCAAGAACCGCCTGCAGCAGGA 4362
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 2.6%;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Score 51.8; DB 24; Length Pred. No. 0.0036; O; Mismatches 162; Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           DB 24; Length 7596;
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